

DISTRICT HEALTH INFORMATION SYSTEM

DHIS

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BACKGROUND

- Developed on Microsoft access platform
- Has become unstable and slow
- Web-based, stable database system being developed
- Output is on excel pivot tables
- Can manipulate it to present data the way you want

BACKGROUND

- District Health Information System, routine health systems for South Africa
- Has data for PHC clinics, CHC and Hospitals
- All provinces are using the system
- Is paper based at facility level
- Provides aggregated data

WHAT IS AVAILABLE

SEMI-PERMANENT DATA

- Organisational Unit Data
 - Infrastructure of each facility
 - Authority running the facility
- Audit/Survey data
 - Facility audit data, DISCA
- Management data
 - Staffing of each facility
- Services available
- Link with ETR and other systems

WHAT IS AVAILABLE

- Summary of all health facilities in the country
- Facilities that have not submitted data for that month
- Utilisation data
- Programme data
- Population data, mid-year population estimate
- GIS coordinates for all facilities, web based programme to link DHIS with GIS

Indicator	Numerator Description	Denominator Description	IndType
ANC visits / client	All antenatal visits	First antenatal (booking) visits	No
HIV test ANC rate	Antenatal clients tested for HIV	Antenatal 1st (booking) visits	%
HIV prev ANC	Antenatal clients tested HIV positive - new cases	Antenatal clients tested for HIV	%
ANC tested syph	Antenatal client tested for syphilis	Antenatal 1st (booking) visits	%
Syph prev ANC client	Antenatal client tested positive for syphilis - new	Antenatal client tested for syphilis	%
NVP uptake	Nevirapine dose to woman at ANC or labour	Antenatal client HIV positive - new	%
NVP newborns	Nevirapine - new born	Live birth to woman with HIV	%
Nevirapine baby cov	Nevirapine dose to baby born to woman with HIV	Expected HIV positive ANC clients (live births x ANC prevalence)	%
Male cond dist rate	Male condoms distributed	Male target population 15 years and older	Nox12
STI incidence ann	STI treated - new episodes	Population 15 years and older	%x12
MUS incidence ann	Male Urethritis Syndrome treated - new episodes	Male population 15 years and older	%x12
MUS rate	Male Urethritis Syndrome treated - new episodes	STI treated - new episodes	%
STI part notif rate	STI partner notification slips issued	STI treated - new episodes	%
STI part trace rate	STI partners treated - new	STI partner notification slips issued	%
Pre-test couns prop	HIV pre-test counselled (excluding antenatal)	PHC headcount 5 years and older excluding ANC visits	%
HIV test rate nonANC	HIV client tested (excluding antenatal)	HIV pre-test counselled (excluding antenatal)	%
HIV prev non-ANC	HIV test positive - new cases (excluding ANC)	HIV client tested (excluding ANC)	%
Prop ARV rape	Rape case given ARV prophylaxis - new	Rape case - new	%
Prop ARV HIV exposur	Occupational HIV exposure case given ARV prophylaxis - new	Occupational HIV exposure - new cases	%
TB case finding indx	Suspected TB case with sputum sent	PHC headcount 5 years and older	%

Data Elements	Ekurhuleni Metro	Johannesburg	Metsweding DM	Sedibeng DM	Tshwane	West Rand DM	Grand Total
STI treated - new	33,276	50,997	807	7,281	23,654	8,657	124,672
STI treated ART		0	0		14		14
MUS treated - new	8,778	13,585	175	2,065	3,752	2,070	30,425
STI slip issued	34,810	44,714	776	8,513	25,598	8,227	122,638
STI partner treated	7,501	18,458	232	2,188	5,339	2,484	36,202
Client tested HIV	23,743	49,614	1,083	8,997	18,710	7,446	109,593
Client HIV Pos	13,631	18,038	447	4,044	6,216	3,169	45,545
HIV test done ANC	9,955	21,085	472	6,029	8,683	4,160	50,384
HIV+ ANC new	3,272	5,880	136	2,094	2,238	1,254	14,874
NVP dose ANC/labour	287	683		393	36		1,399
NVP new born	185	630		423	53		1,291
HIV 1st test baby	221	358	12	241	162	51	1,045
HIV 1st test pos	114	240	8	40	32	11	445
Ref for ART assessme		0	22		427		449
Reg ART adult regim			0		3		3
Rape case new	6,360	494	15	36	607	4	7,516
ARV to rape case	100	315	14	48	812	46	1,335
HIV test <5	758	1,182	35	239	771	131	3,116
HIV Pos <5 new	697	415	16	363	202	72	1,765

STEP 1: UNDERSTAND THE DATA FLOW

Manual Data collection



Monthly Summary
Deadline: 7th of next month!



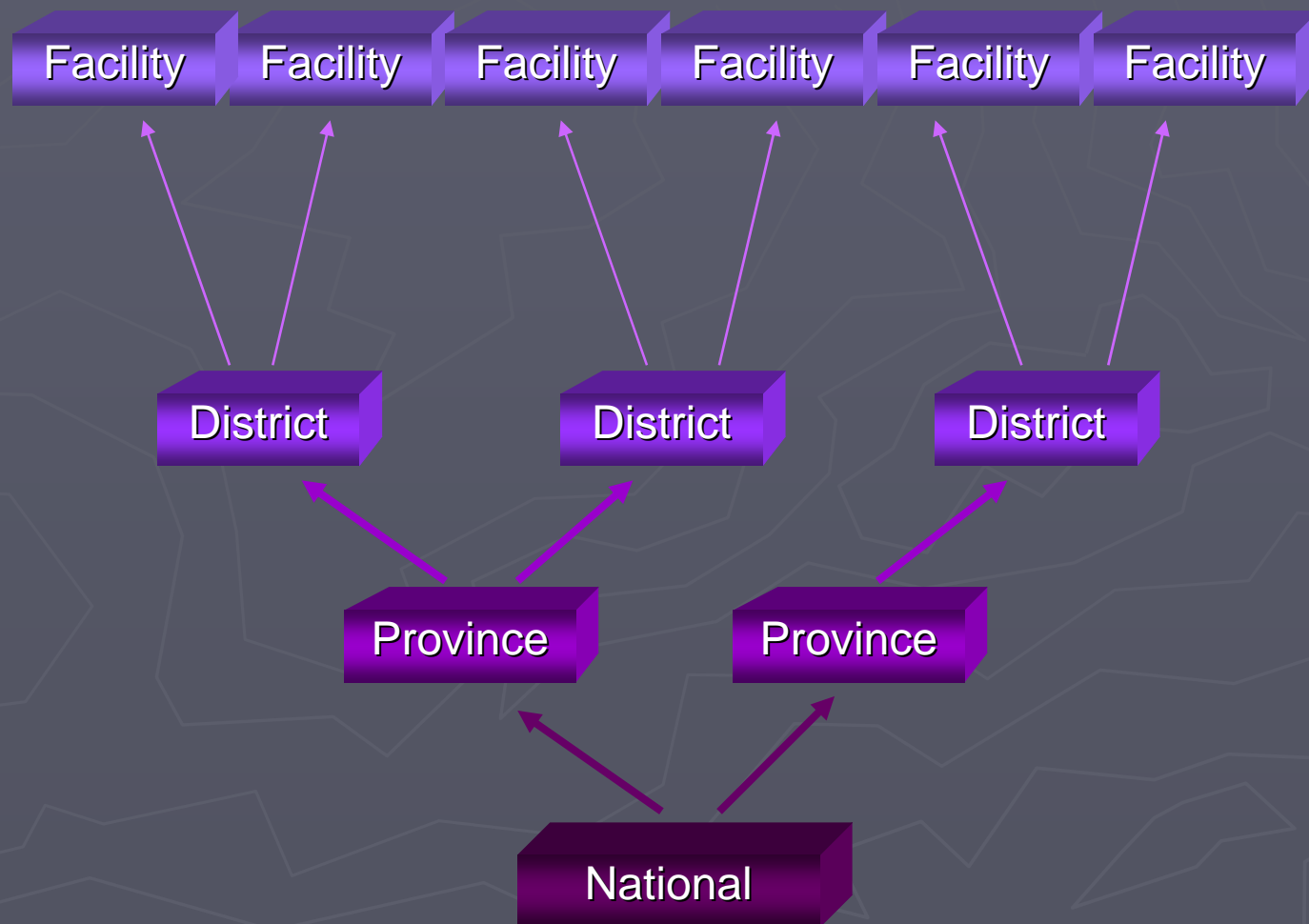
Computerization



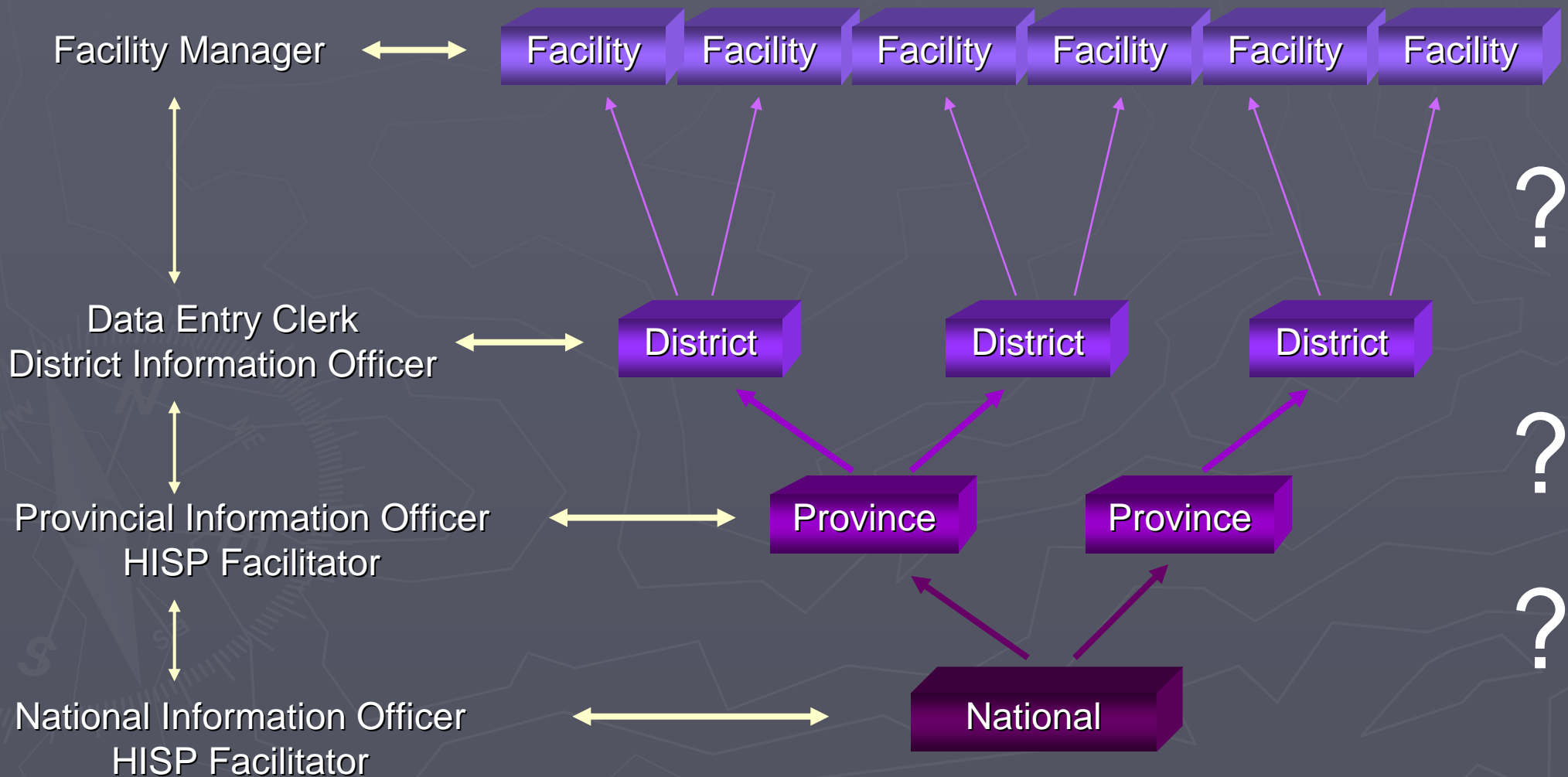
Monthly update CD
Deadline: End of next month!



Monthly update CD
Deadline: ?



STEP 2: UNDERSTAND RESPONSIBILITIES



OUTPUT

- Data can be aggregated and presented by:
 - Facility (OU5)
 - Sub-district (OU4)
 - District (OU3)
- One set for the whole province (OU2)

And

- Each set by month for the last 12 months with a year summary

What is missing

- Data by age group break down
- Data by gender
- Data aggregated by syndromes e.g. for STI
- Hence sentinel surveillance was initiated for some programmes
- Only a few facilities collect this detailed information

CHALLENGES AND WAY FORWARD

- No data validation at lower levels, programme people do not have time
- No clear career path for information officers
- Role in CCMT programme still being explored in certain provinces
- Accrediting PHC clinics for ARTs will create a need for a system at this level (DHIS?)
- Donors needing information from programmes